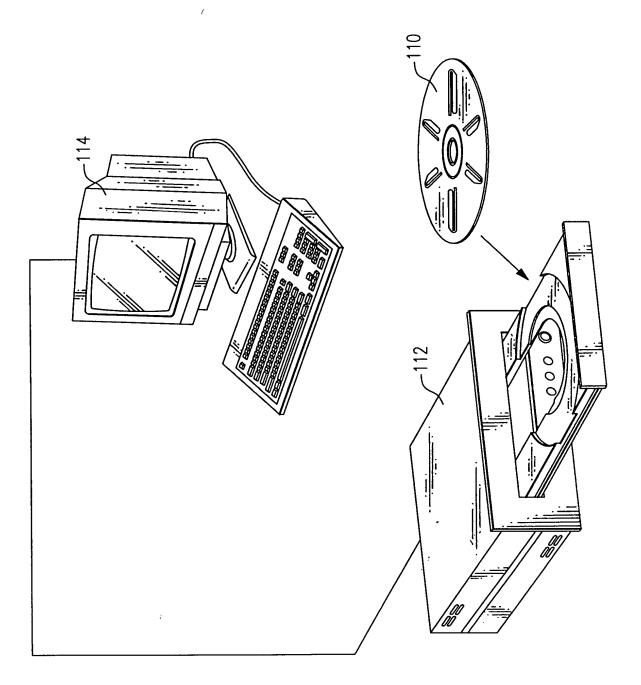


Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM

Inventors: Phan, et al.
Docket No: BTI2 00103502(USP2)USP7X1

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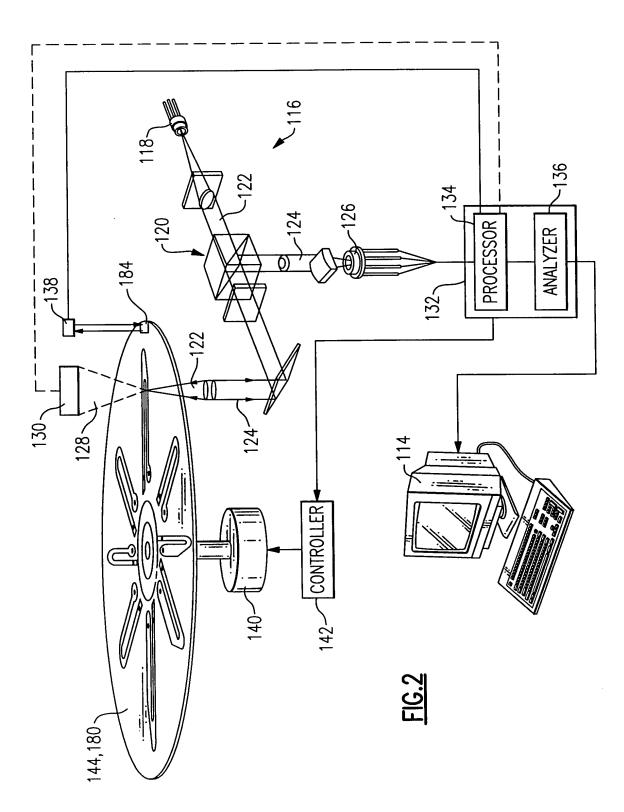


I certify that this document was submitted to the U.S. Patent and Trademark Office using U.S. Express Mail # EL923484743US
Jacquelyn Campbell

Print Name

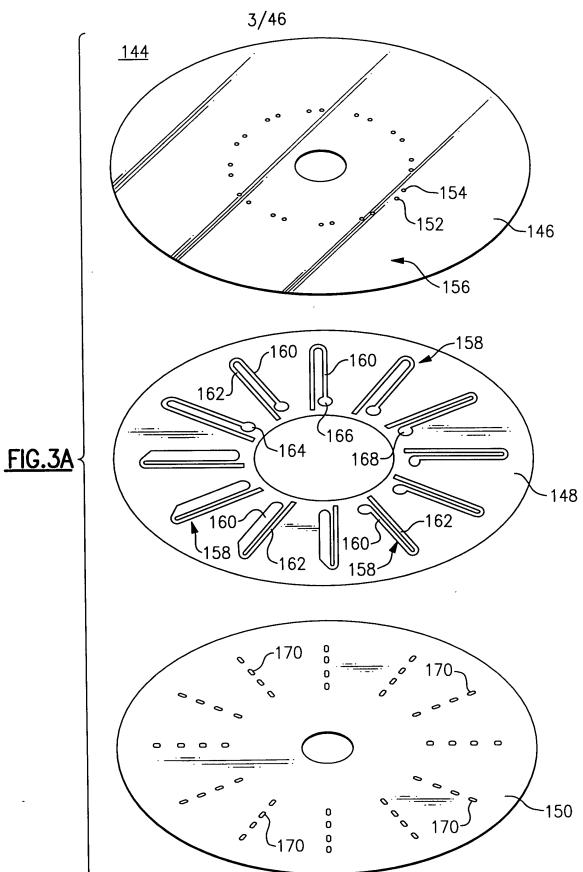
February 26, 2002

February 26, 2002 Date



Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM

Inventors: Phan, et al. Docket No: BTI2 00103502(USP2)USP7X1





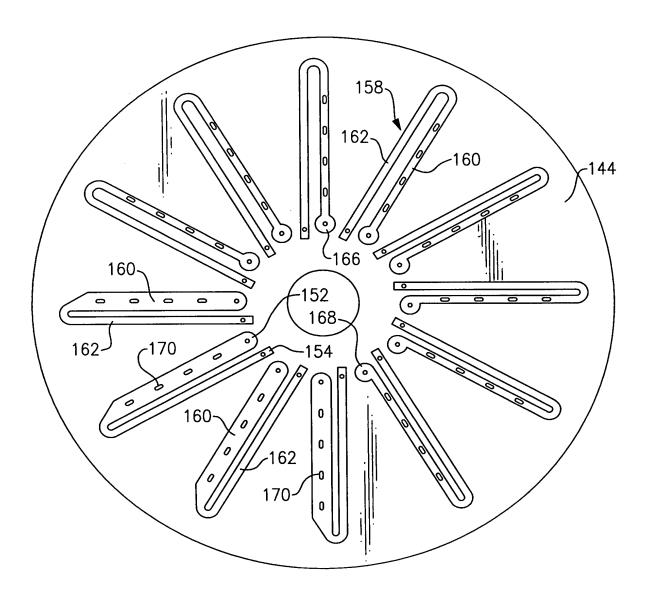
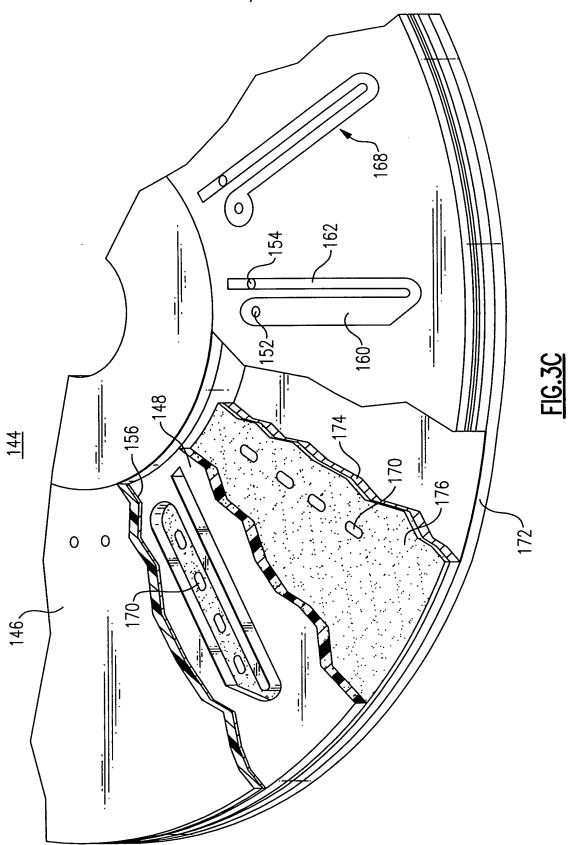
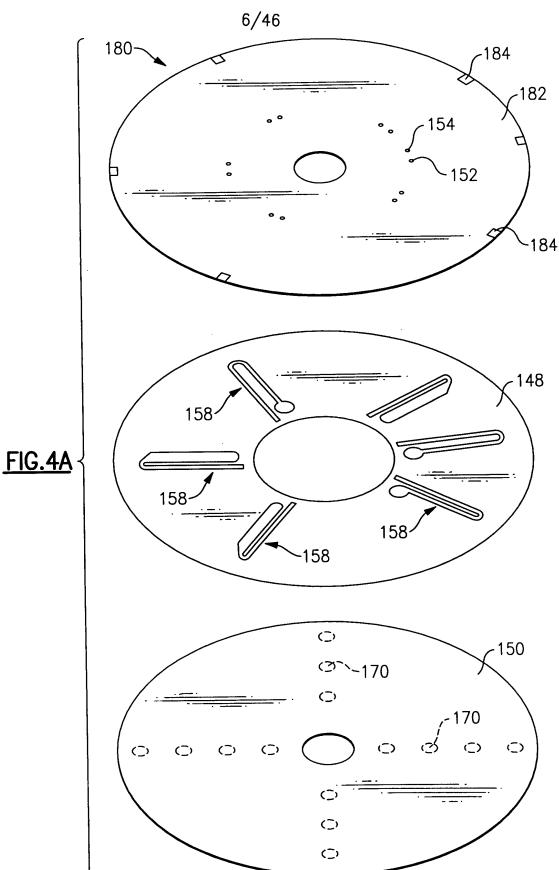


FIG.3B



Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM

Inventors: Phan, et al.
Docket No: BTI2 00103502(USP2)USP7X1



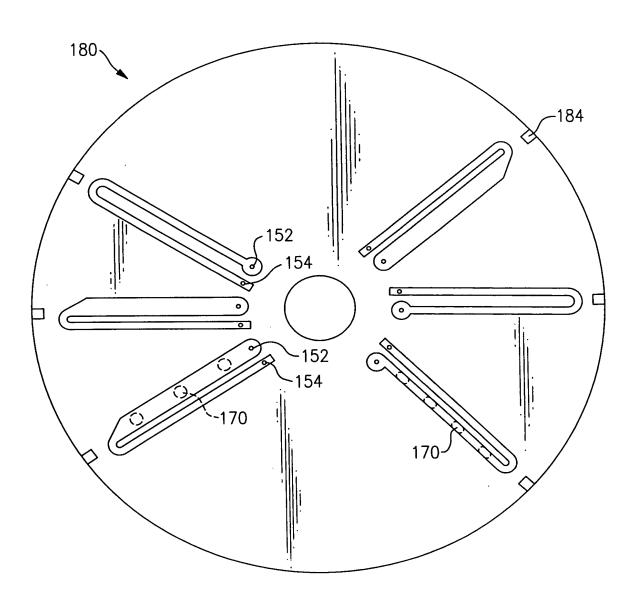
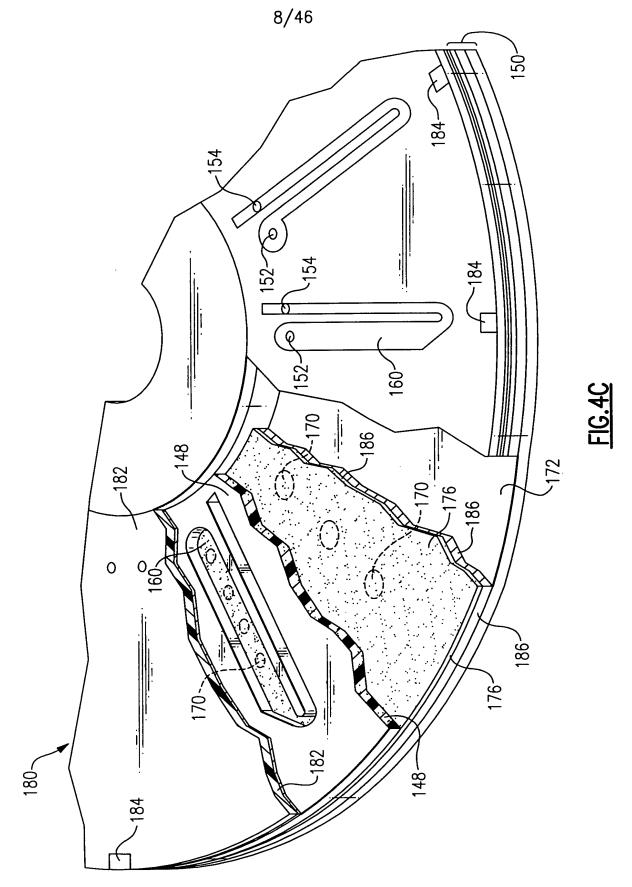
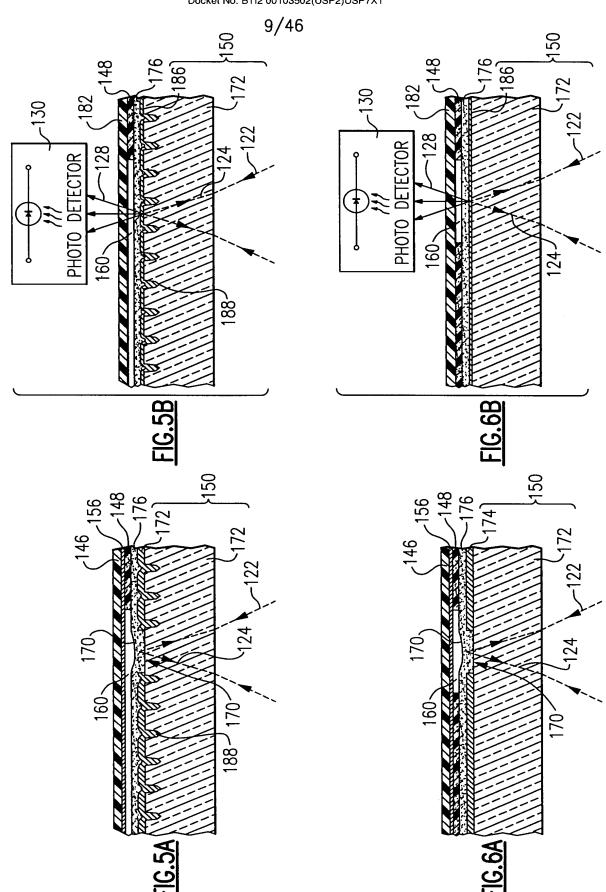


FIG.4B









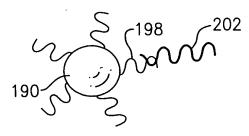




196 190

FIG.7A

FIG.7B



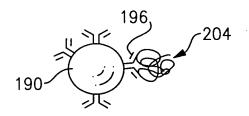
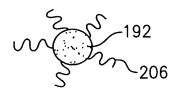


FIG.8A

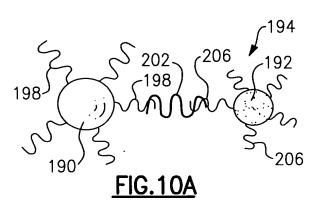
FIG.8B



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FIG.9A

FIG.9B



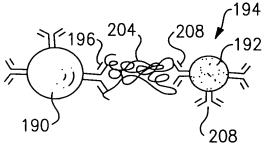
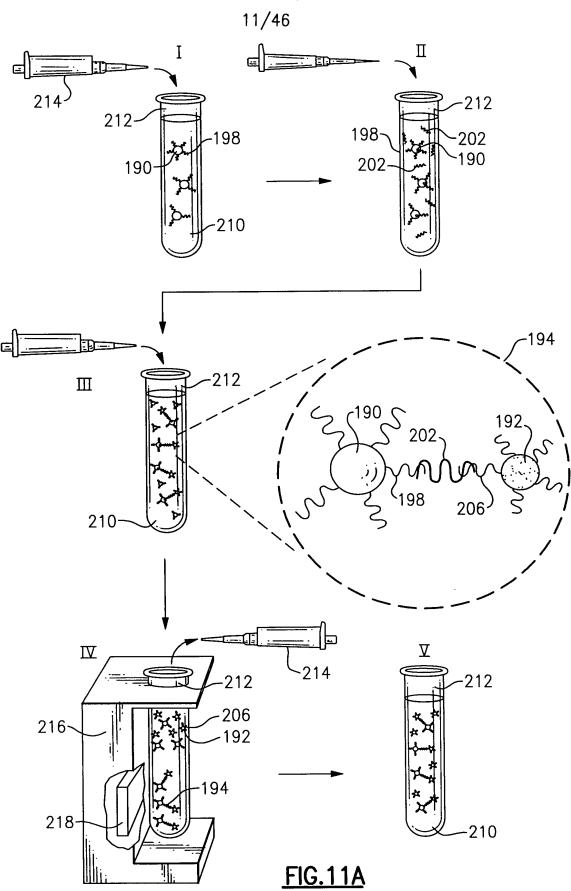
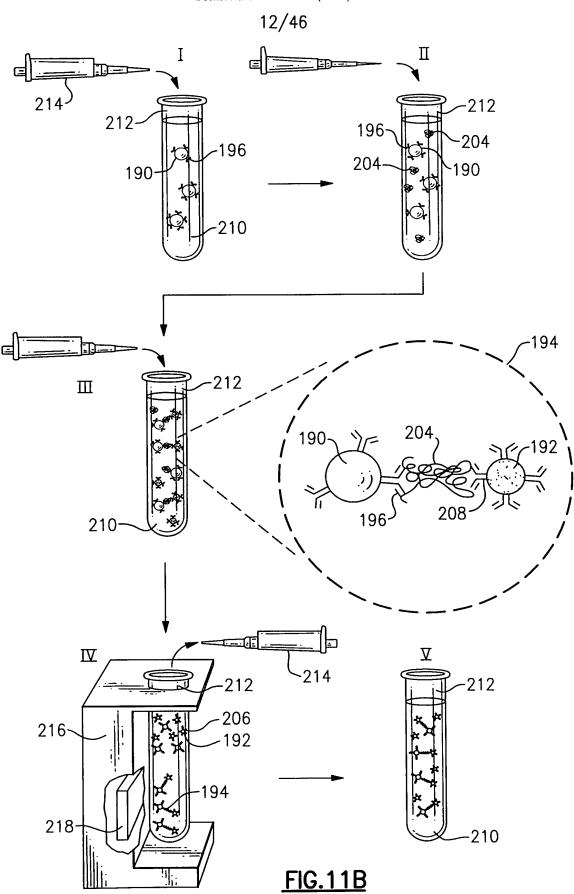


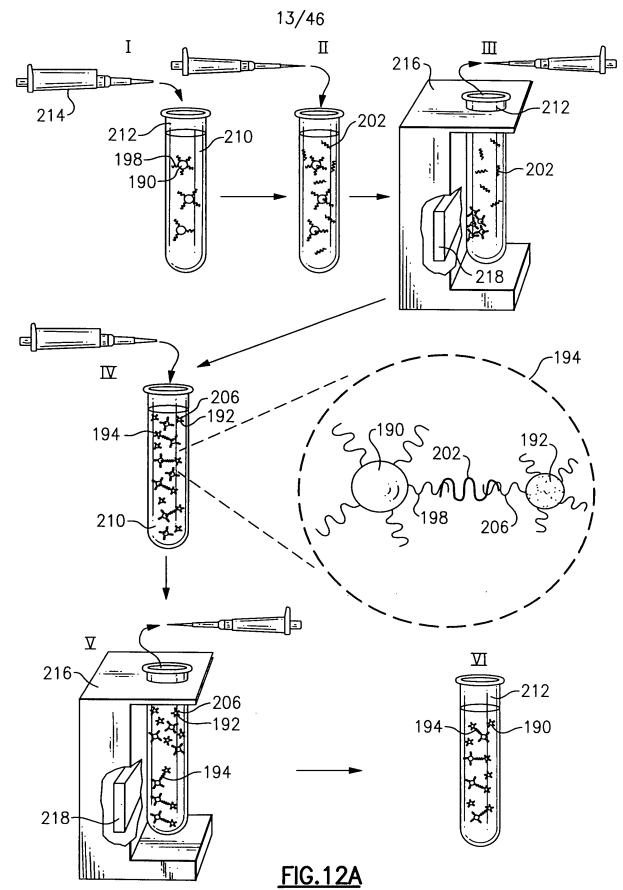
FIG.10B

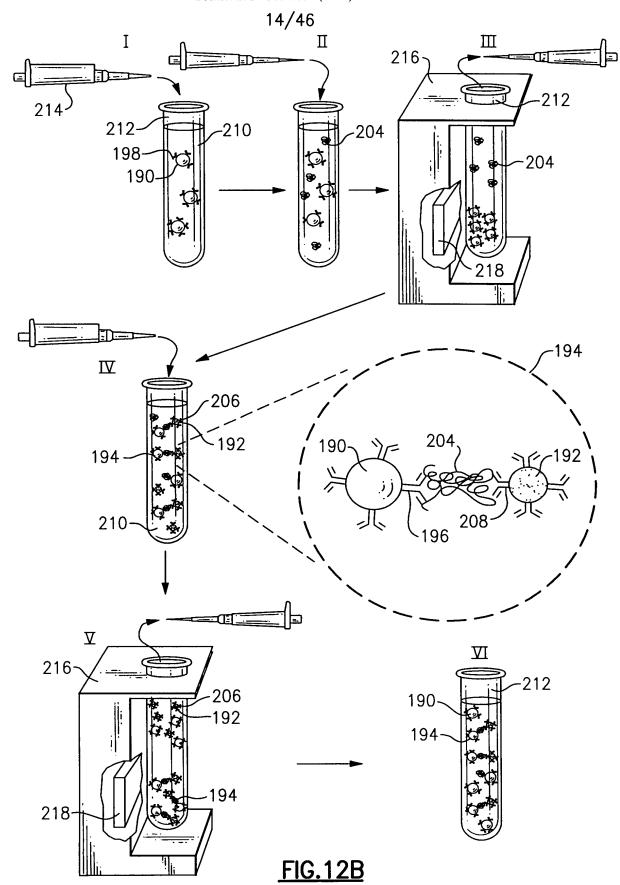
Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM Inventors: Phan, et al.

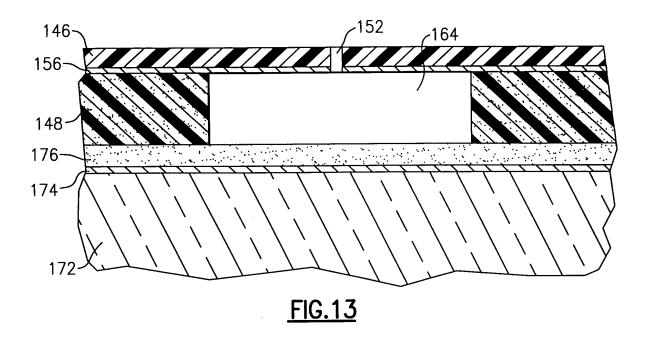
Inventors: Phan, et al. Docket No: BTI2 00103502(USP2)USP7X1

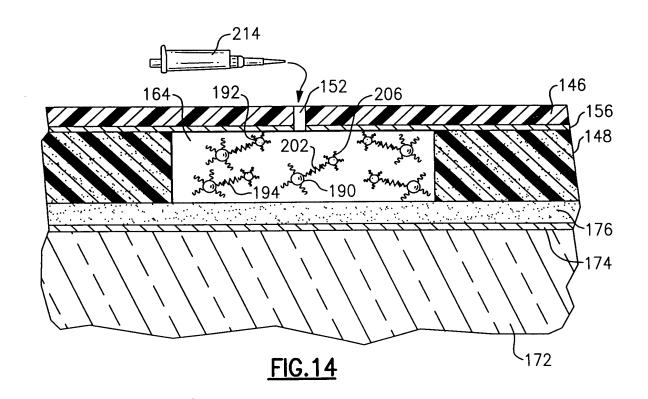


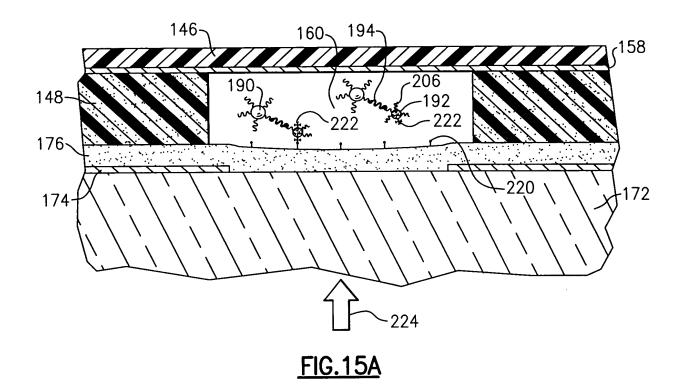


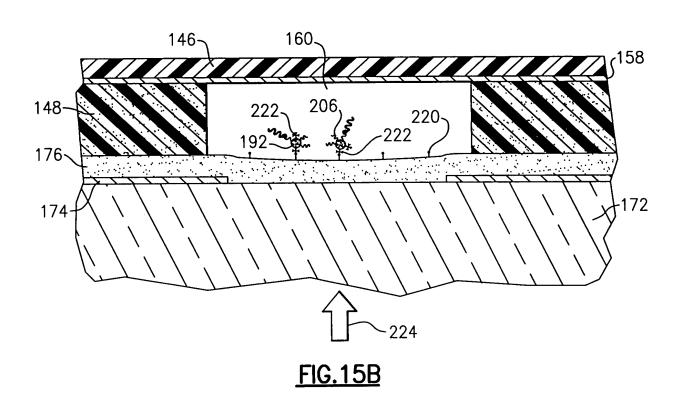






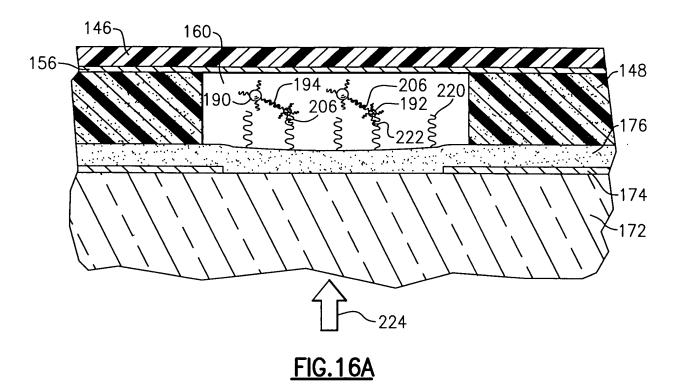


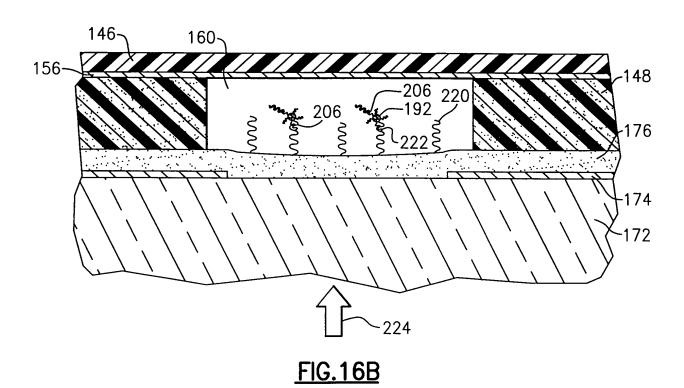


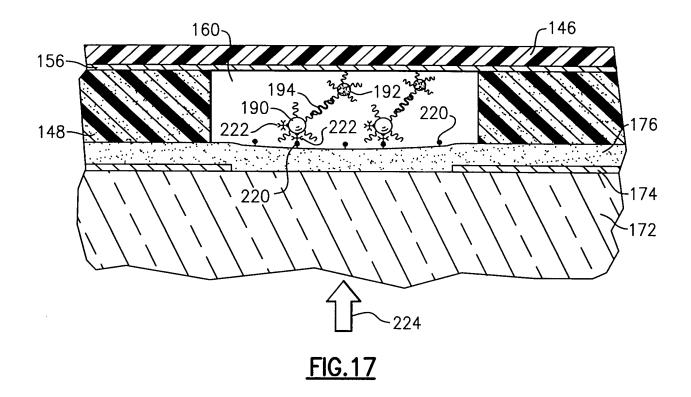


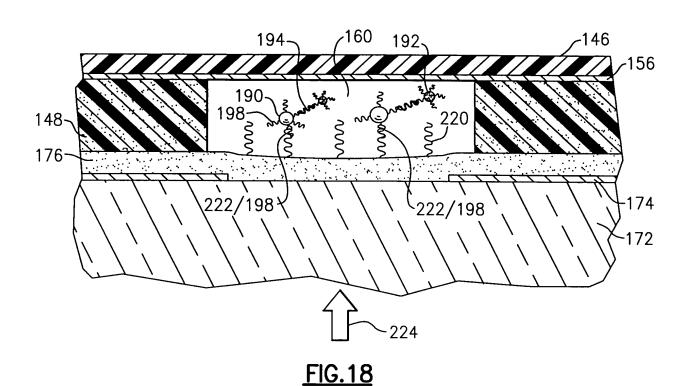
Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM.

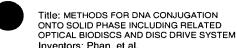
Inventors: Phan, et al.
Docket No: BTI2 00103502(USP2)USP7X1





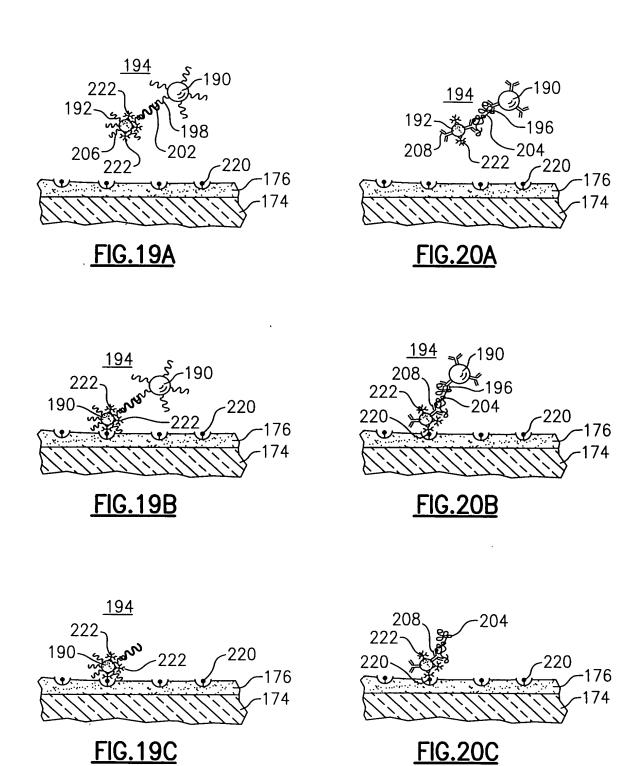






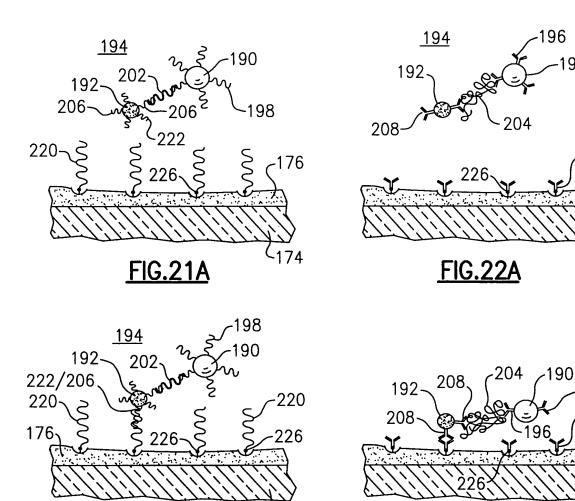
Inventors: Phan, et al.

Docket No: BTI2 00103502(USP2)USP7X1





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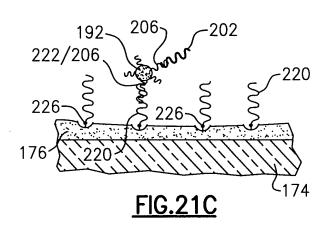


FIG.21B

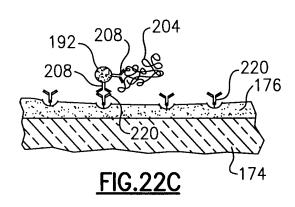


FIG.22B

190

220

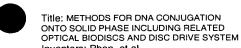
-196

-220

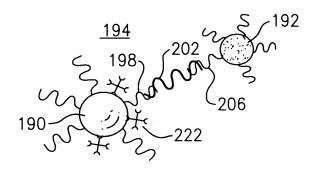
174

176

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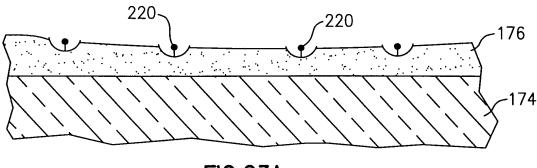
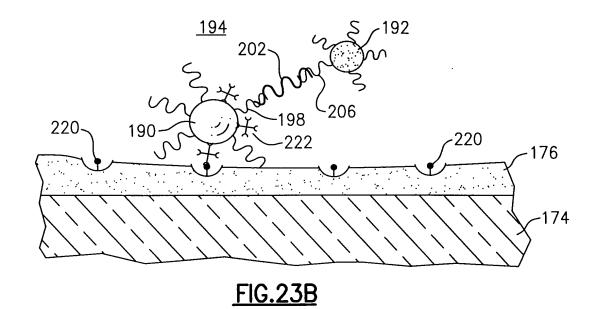
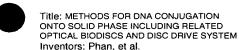


FIG.23A





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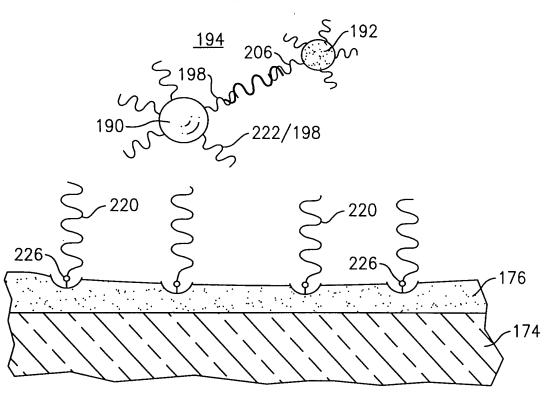


FIG.24A

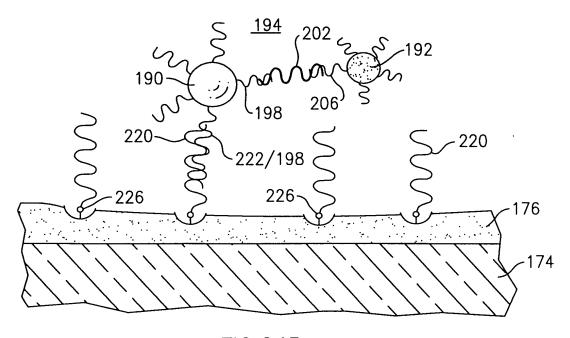
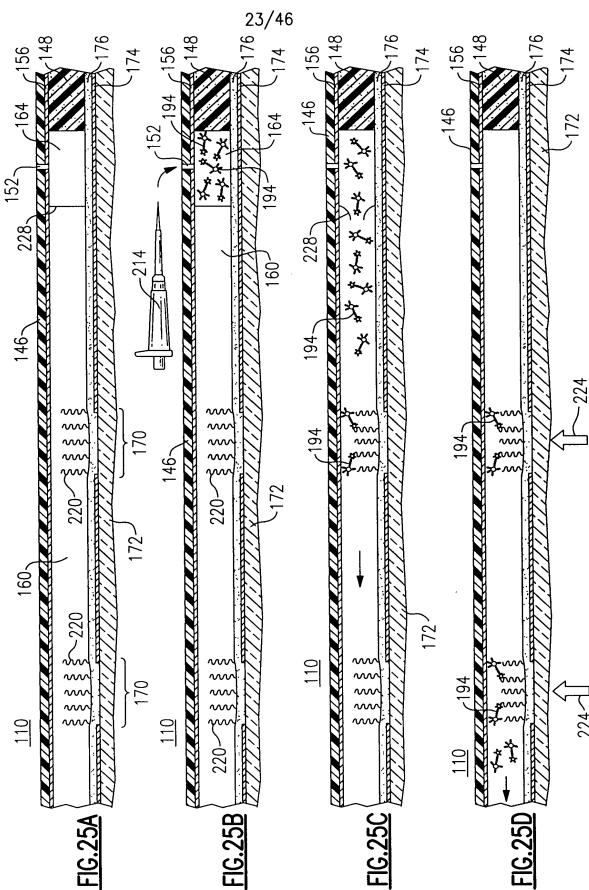


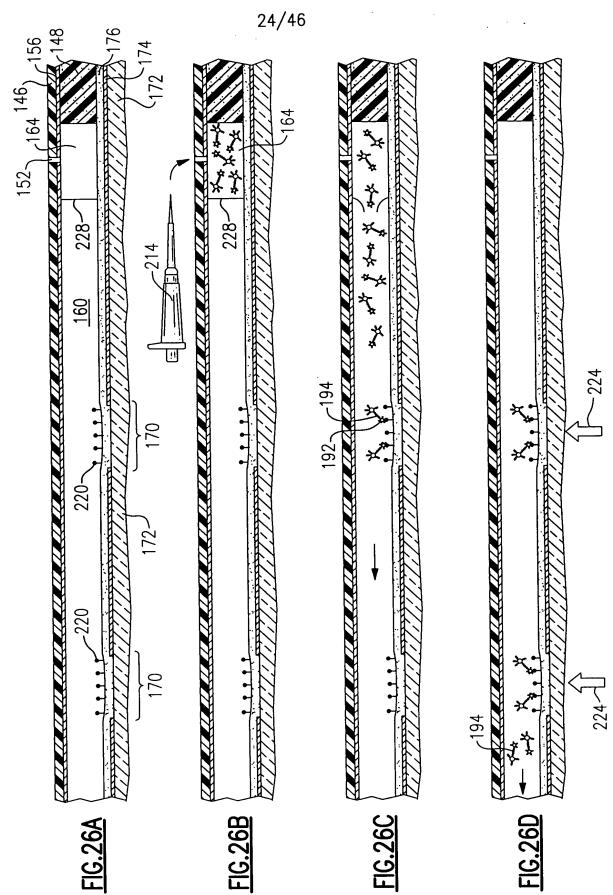
FIG.24B

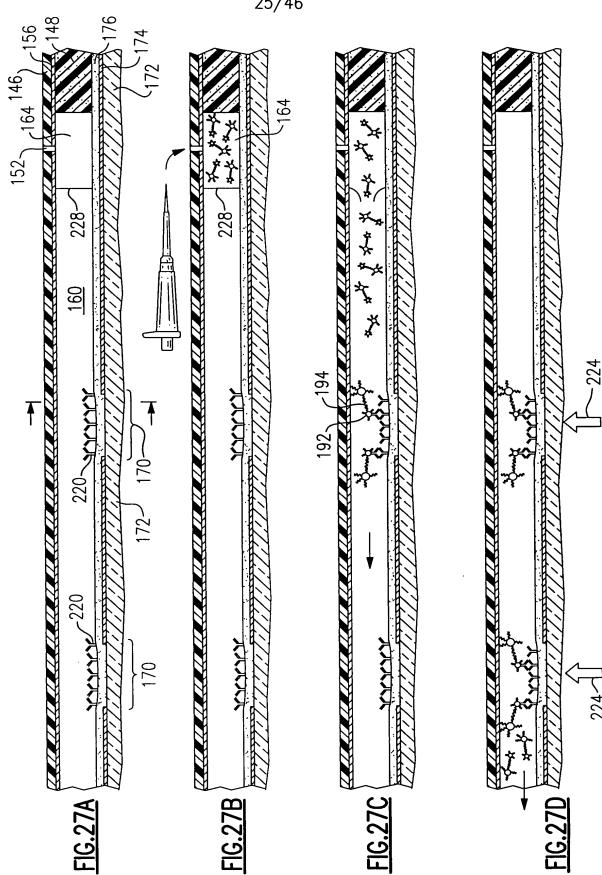




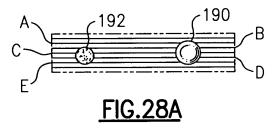
Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM

Inventors: Phan, et al.
Docket No: BTI2 00103502(USP2)USP7X1









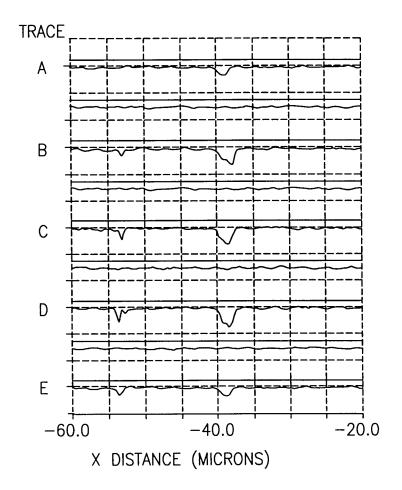
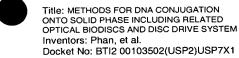
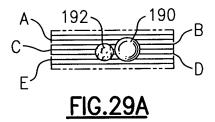


FIG.28B





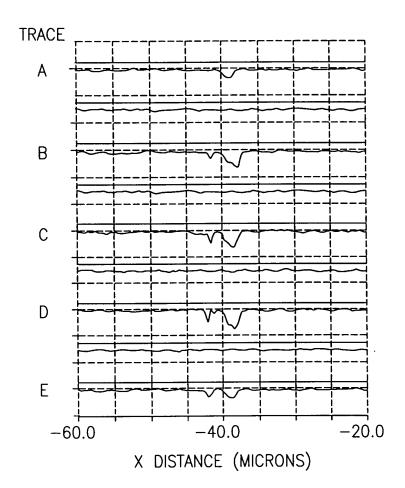
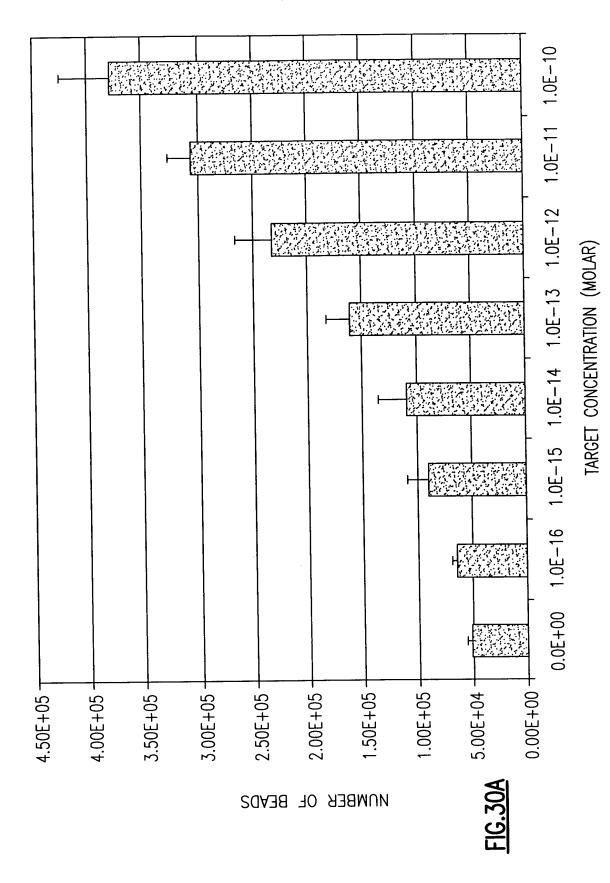


FIG.29B

Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM Inventors: Phan. et al.

Inventors: Phan, et al.
Docket No: BTI2 00103502(USP2)USP7X1



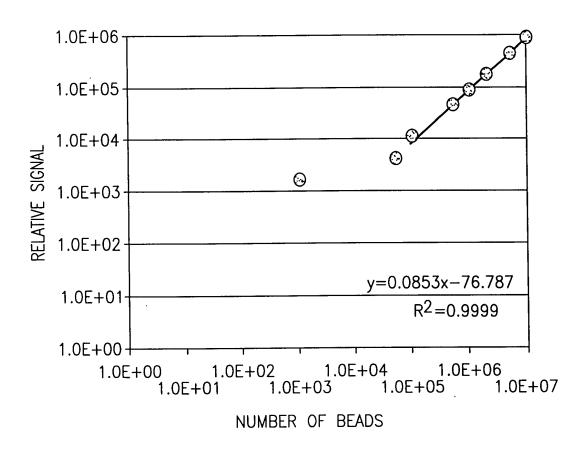


FIG.30B



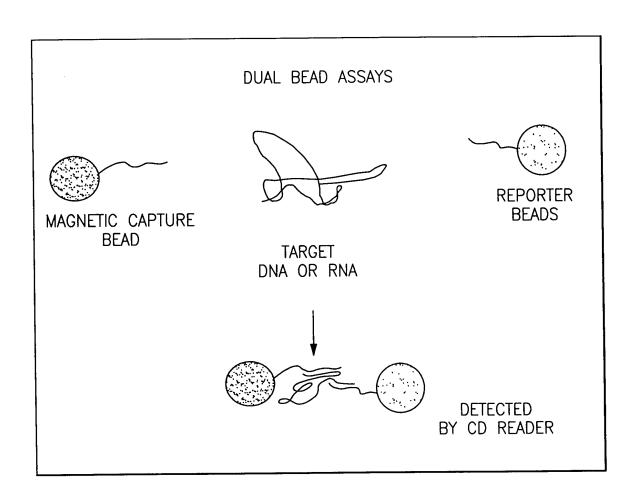


FIG.30C

Title: METHOD ONTO SOLID P

Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM Inventors: Phan, et al. Docket No: BTI2 00103502(USP2)USP7X1

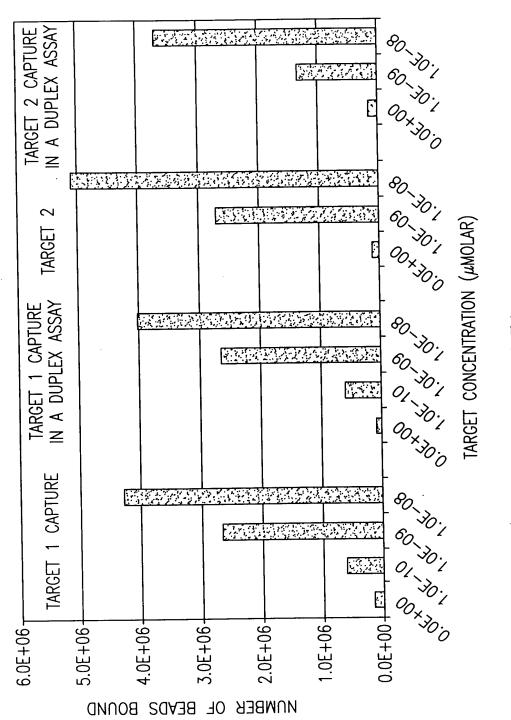


FIG.31

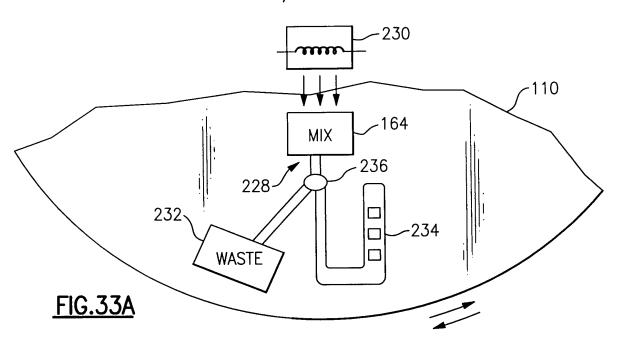


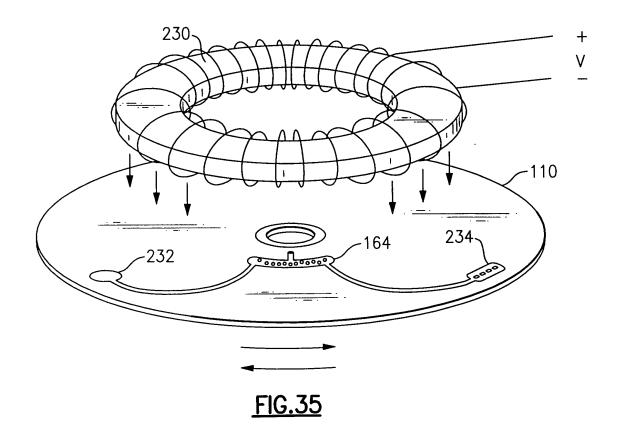
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DUAL BEAD ASSAY MULTIPLEXING

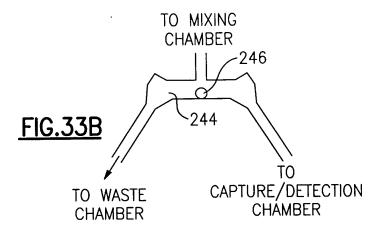
MAGNETIC BEADS	REPORTER BEADS	DUPLEX
•	O O Ø	©○ ©○ ©◎
M	O O O	◎ ○ ◎ ○ ·
M		
M		M M

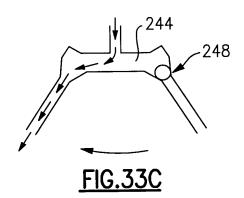
FIG.32

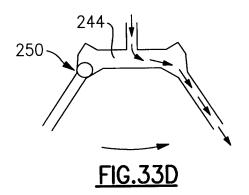




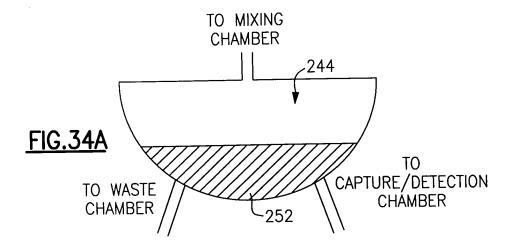


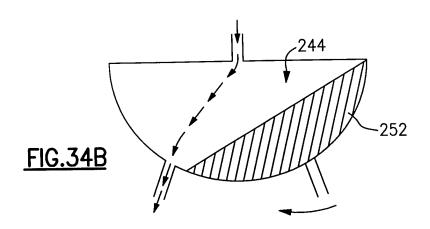


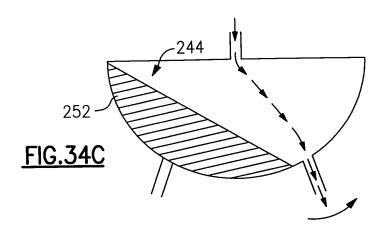


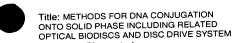




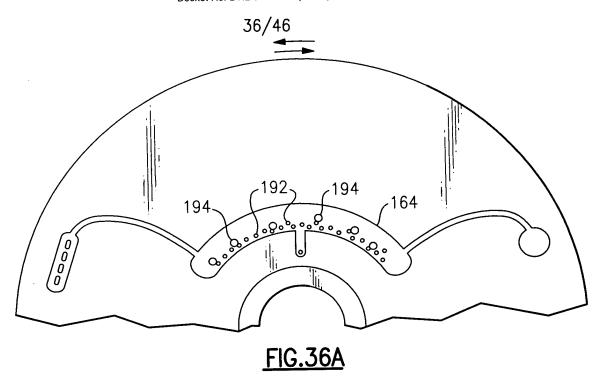


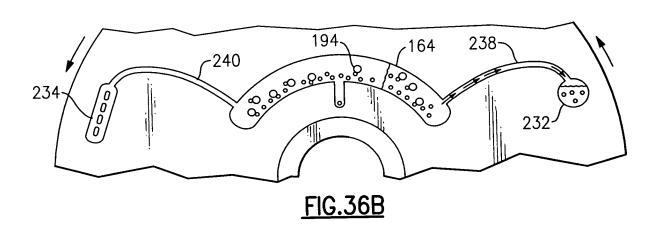






Inventors: Phan, et al.
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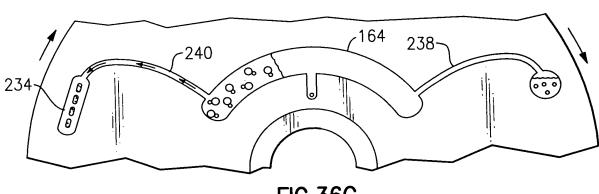
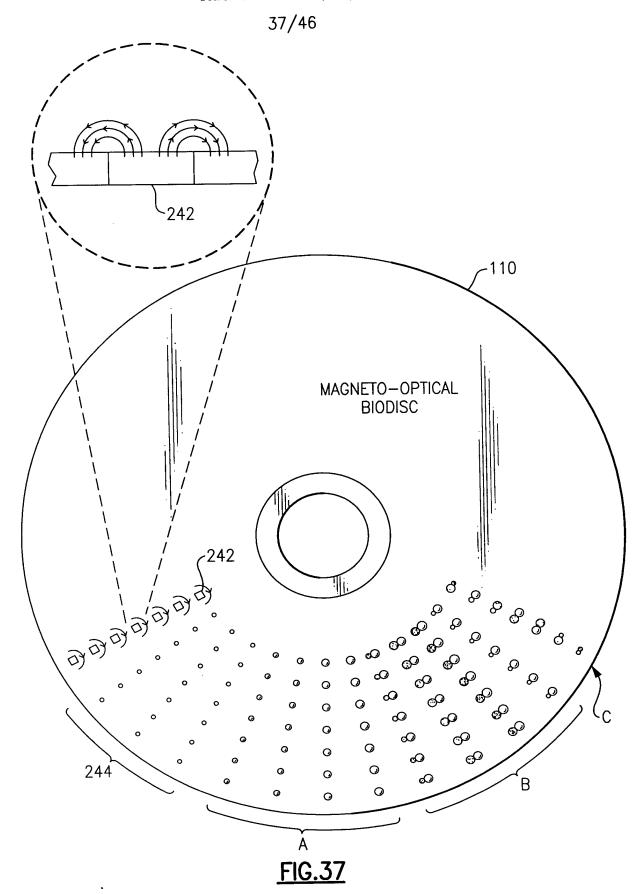
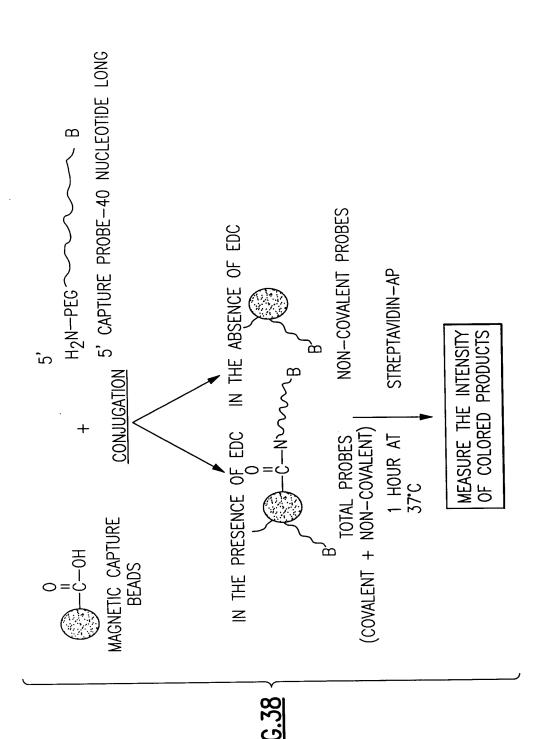


FIG.36C

Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM Inventors: Phan, et al.

Docket No: BTI2 00103502(USP2)USP7X1





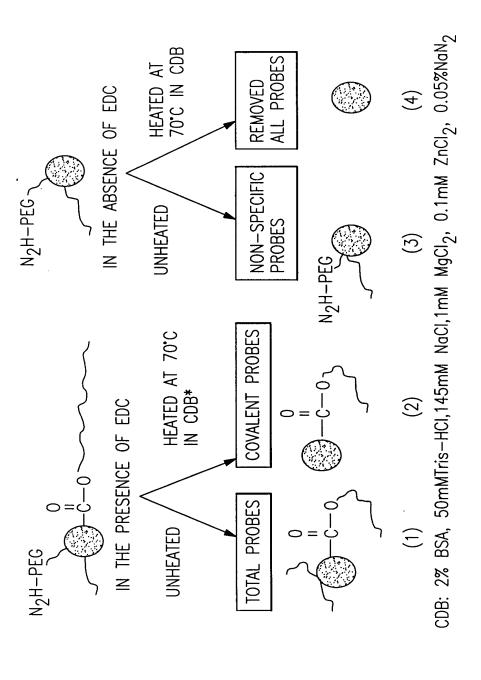
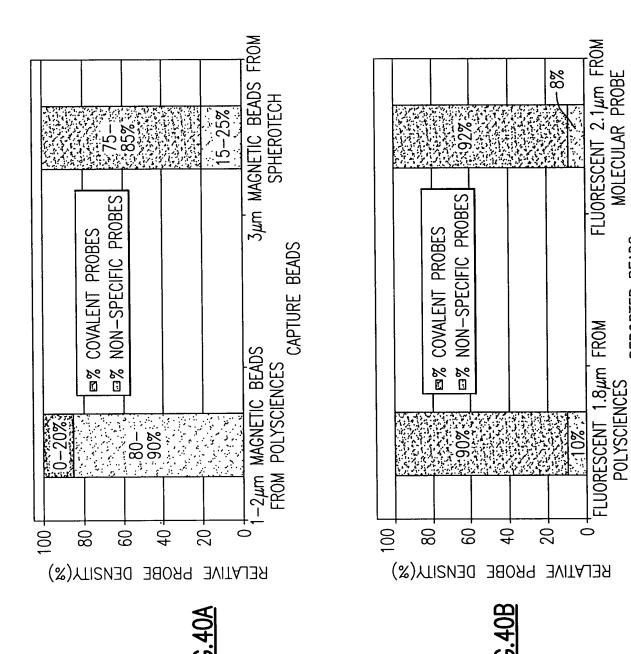


FIG. 39

Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM Inventors: Phan, et al.

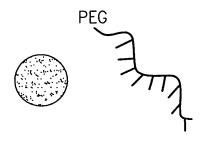
Docket No: BTI2 00103502(USP2)USP7X1

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REPORTER BEADS

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OPEN BASES--MORE HYDROPHOBIC INTERACTIONS WITH BEAD'S SURFACE

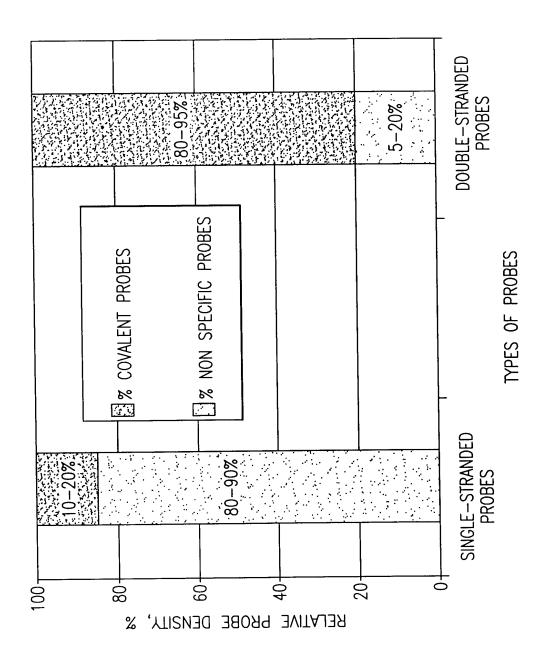
BIOTIN

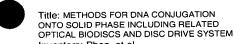


PEG COMPLEMENTARY STRAND HYDR

COMPLEMENTARY STRAND HYDRIBIZED——NO OPEN BASES, LESS HYDROPHOBIC INTERACTIONS WITH BEAD SURFACE

FIG.41A





Inventors: Phan, et al. Docket No: BTI2 00103502(USP2)USP7X1

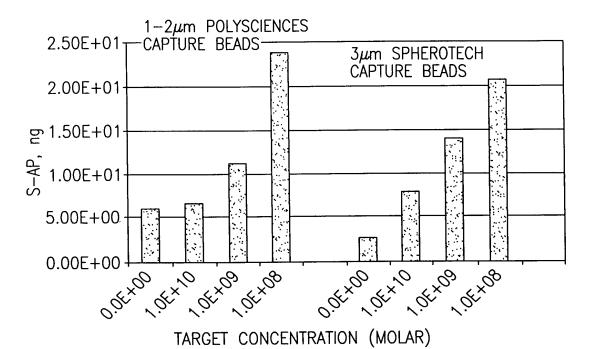


FIG.42A

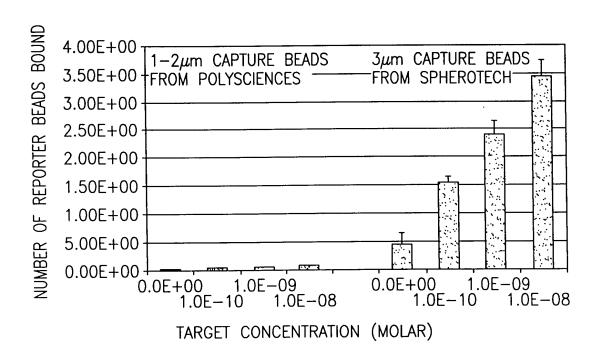


FIG.42B



Title: METHODS FOR DNA CONJUGATION ONTO SOLID PHASE INCLUDING RELATED OPTICAL BIODISCS AND DISC DRIVE SYSTEM INVESTORS: Phan et al.

Inventors: Phan, et al. Docket No: BTI2 00103502(USP2)USP7X1

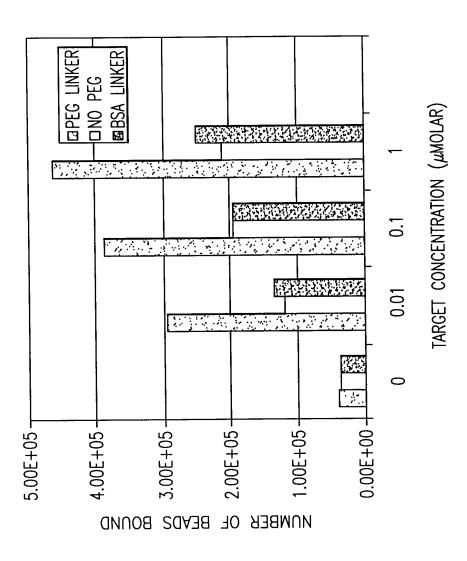


FIG. 43



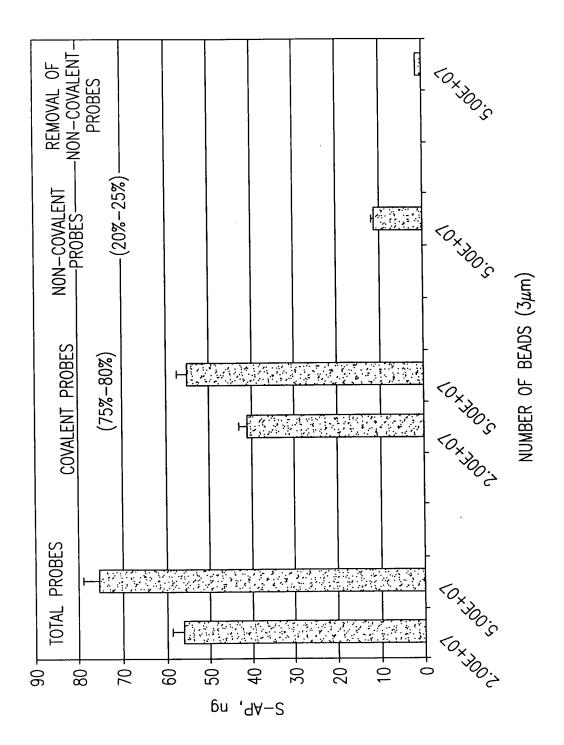
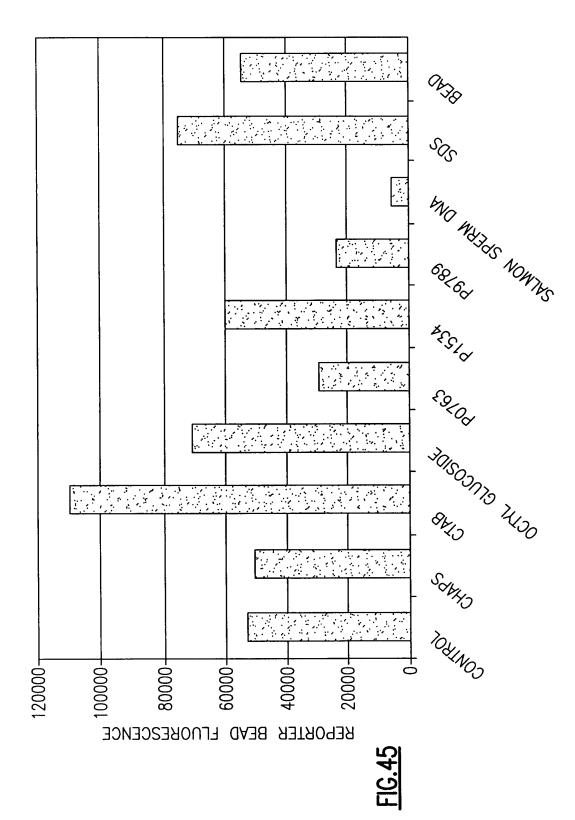


FIG. 44





BEAD PRETREATMENT TYPE